

Principle of electrical energy generation employing mammoth pumps

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Abstract

The drawing on the left shows an upright (2) with a turbogenerator (3/4) on the seabed (1) at a depth of about 100 m. The generator is driven by the compressed air/water mixture in the riser (6) and, with a mixing ratio of 1:1 of the compressed air (7) supplied and with discharge at (8) can utilise a pressure difference of about 5 atmospheres gauge pressure. The water enters at (5) at about 10 atmospheres gauge pressure, the current produced is removed in the direction (10) of the land, and the rising water is discharged at (9). The right-hand diagram shows a combination of five units and the machine platform (12). Application is also possible in flooded pits, caves, reservoirs and the like. Development and testing should reveal the cost

effectiveness



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